

ABSTRACT

A system and related methods for characterizing and improving optical drive read performance is presented. The system includes an innovative audio file stored on optical media (characterization file), and an optical drive characterization agent, implemented on a computing system. The optical drive characterization agent iteratively controls the optical drive to perform incremental reads of at least a subset of the characterization file, analyzes at least the subset of the characterization file read from the optical media, and generates one or more performance scores on an associated one or more performance attributes of the optical drive. In this regard, optical drive characterization agent quantifiably characterizes an optical drive's ability to accurately read individual sectors from optical media comprising audio content.